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Real-Time Bridge Scouring Safety Monitoring System

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The scour of riverbed is one major cause for bridge failure while the river is in flood. A monitoring system is crucial to give advance warning. In this paper, a real-time bridge scouring safety monitoring system is proposed. It is composed with digital sensors, a control unit and a 3G module. The digital sensors embedded in river bed at designed depth can sense the vibration caused by water flow. The control unit captures signals from digital sensors and sends out scouring condition through the 3G module. This system was installed in field and successfully sent real-time scouring data back during Morako typhoon in 2009 in Taiwan. The result demonstrates the adoptability and potential of this system on real-time bridge safety monitoring.

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Ключевые слова:

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